

PF030059

Ser. No. 10/812,131
 Amdt. dated November 3, 2005
 Reply to Office action of May 3, 2005, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) Floating microwave filter in a waveguide structure, comprising filtering elements sandwiched between two foam half-bars that are placed inside a waveguide, wherein [the filtering elements are metal features etched in the surface of] one of the two foam half-bars comprises the filtering elements made of metal features and the waveguide is an internally hollowed-out block of foam having a metallized outer surface.
2. (previously presented) Filter according to Claim 1, wherein the foam waveguide has a rectangular cross section and an internal cavity of circular cross section.
3. (previously presented) Filter according to Claim 1, wherein the foam waveguide has a circular cross section and an internal cavity of rectangular cross section.
4. (previously presented) Filter according to Claim 1, wherein the foam waveguide has a rectangular cross section and an internal cavity of rectangular cross section.
5. (previously presented) Filter according to Claim 1, wherein the surface of the foam bar on which the metal features are placed is crenellated.
6. (currently amended) Process for manufacturing a floating filter [according to claim 1] in a waveguide structure comprising elements sandwiched between foam half-bars that are placed inside a waveguide, the process[,] comprising a step of forming [forming] the metal features constituting the filtering elements by spraying a metal paint onto the surface of one of the foam half-bars.
7. (currently amended) Process for manufacturing a floating filter [according to claim 1] in a waveguide structure comprising elements sandwiched between foam half-bars that are placed inside a waveguide, the process[,] comprising a step of forming the metal features constituting the filtering elements by brushing a metal paint onto the surface of one of the foam half-bars.